

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4	US-6210536-\$.DID. OR US-5322960-\$.DID.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 09:32
L2	533640	melt	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 09:19
L3	332744	inhibitor	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 09:31
L4	25083	I2 and I3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 08:59
L5	1684	I2 same I3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 09:00
L6	180	I2 near4 I3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 09:00
L7	80	I2 near2 I3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 09:00
L8	293	562/598	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 09:01
L9	317	562/600	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 09:01
L10	0	I7 and I9	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 09:01
L11	5	I5 and I9	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 09:06
L12	252	203/8.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 09:06

L13	3	I2 and I12	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 09:42
L14	3737	I3 adj composition	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 10:54
L15	563	I8 or I9	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 09:09
L16	41	I12 and I15	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 09:09
L17	2	I14 and I16	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 09:09
L18	1	("6579442").URPN.	USPAT	OR	ON	2005/08/04 09:11
L19	1	"5221498".PN.	USPAT; USOCR	OR	ON	2005/08/04 09:13
L20	1	"6379588".PN.	USPAT; USOCR	OR	ON	2005/08/04 09:15
L21	15551	phenothiazine	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 09:16
L22	442	I2 and I14	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 09:16
L23	18	I2 same I14	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 09:16
L24	98	I2 same I21	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 09:30
L25	2	I15 and I24	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 09:19
L26	21068	\$butylphenol	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 10:51

L27	487	I26 same I21	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 10:55
L28	115	I2 and I27	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 09:33
L29	1	I2 same I27	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 09:33
L30	2	"6676849".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 09:43
L31	0	("6676849").URPN.	USPAT	OR	ON	2005/08/04 09:49
L32	1	"3920587".PN.	USPAT; USOCR	OR	ON	2005/08/04 09:45
L33	1	"4058493".PN.	USPAT; USOCR	OR	ON	2005/08/04 09:45
L34	0	"2004031674".pn.	USPAT	OR	ON	2005/08/04 09:49
L35	0	"20040031674".pn.	USPAT	OR	ON	2005/08/04 09:50
L36	0	"200431674".pn.	USPAT	OR	ON	2005/08/04 09:56
L37	1	"6498272".pn.	USPAT	OR	ON	2005/08/04 09:58
L38	22530	Schroeder	USPAT	OR	ON	2005/08/04 09:59
L39	2	I38 and I27	USPAT	OR	ON	2005/08/04 10:01
L40	0	"10235847"	USPAT	OR	ON	2005/08/04 10:02
L41	5	"10235847"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 10:07
L42	2	"20030040570"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 10:20
L43	13	"19740253"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 10:36
L44	2	"08073405"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 10:36
L45	18	I12 and I26	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 10:52

L46	2238906	composition	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 10:55
L47	122	I46 same I27	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 11:03
L48	0	I15 and I47	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 10:55
L49	154634	liquid near4 composition	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 11:24
L50	6	I27 same I49	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 11:23
L51	77	I26 same I49	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 11:23
L52	0	I12 and I51	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 11:24
L53	0	I15 and I51	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 11:24
L54	9929	liquid near4 (Stabilizer or inhibitor)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 11:25
L55	48	I26 same I54	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/04 11:25
L56	11	("4376678").URPN.	USPAT	OR	ON	2005/08/04 12:16
L57	207	544/35.ccls.	USPAT	OR	ON	2005/08/04 12:16
L58	5	I26 and I57	USPAT	OR	ON	2005/08/04 12:17

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NEWS	4	FEB 28	BABS - Current-awareness alerts (SDIs) available
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NEWS	6	MAR 03	REGISTRY/ZREGISTRY - Sequence annotations enhanced
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NEWS	8	MAR 22	KOREAPAT now updated monthly; patent information enhanced
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NEWS	12	APR 04	EPFULL enhanced with additional patent information and new fields
NEWS	13	APR 04	EMBASE - Database reloaded and enhanced
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NEWS	16	APR 28	Improved searching of U.S. Patent Classifications for U.S. patent records in CA/CAPLUS
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NEWS	18	MAY 23	REGISTRY has been enhanced with source information from CHEMCATS
NEWS	19	JUN 06	The Analysis Edition of STN Express with Discover! (Version 8.0 for Windows) now available
NEWS	20	JUN 13	RUSSIAPAT: New full-text patent database on STN
NEWS	21	JUN 13	FRFULL enhanced with patent drawing images
NEWS	22	JUN 27	MARPAT displays enhanced with expanded G-group definitions and text labels
NEWS	23	JUL 01	MEDICONF removed from STN
NEWS	24	JUL 07	STN Patent Forums to be held in July 2005
NEWS	25	JUL 13	SCISEARCH reloaded
NEWS	26	JUL 20	Powerful new interactive analysis and visualization software, STN AnaVist, now available
NEWS EXPRESS			JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005
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NEWS INTER			General Internet Information
NEWS LOGIN			Welcome Banner and News Items
NEWS PHONE			Direct Dial and Telecommunication Network Access to STN
NEWS WWW			CAS World Wide Web Site (general information)

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=> file caplus

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SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

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FILE COVERS 1907 - 4 Aug 2005 VOL 143 ISS 6

FILE LAST UPDATED: 3 Aug 2005 (20050803/ED)

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=> inhibitor composition

480451 INHIBITOR

494383 INHIBITORS

766113 INHIBITOR

(INHIBITOR OR INHIBITORS)

638013 COMPOSITION

288329 COMPOSITIONS

920756 COMPOSITION

(COMPOSITION OR COMPOSITIONS)

1350808 COMPN

544035 COMPNS

1654795 COMPN

(COMPN OR COMPNS)

2094504 COMPOSITION

(COMPOSITION OR COMPN)

L1 1447 INHIBITOR COMPOSITION

(INHIBITOR(W) COMPOSITION)

=> melt

290028 MELT  
81828 MELTS  
L2 328496 MELT  
(MELT OR MELTS)

=> l1(1)l2

L3 1 L1(L)L2

=> d l3

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 1980:133145 CAPLUS  
DN 92:133145  
TI Molten metal penetration inhibitors for self-curing organic  
binder-containing core sands  
IN Nakano, Toshio  
PA Ikegai Iron Works, Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 3 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 54116326	A2	19790910	JP 1978-22779	19780302
PRAI	JP 1978-22779	A	19780302		

=> ?butylphenol

L4 14825 ?BUTYLPHENOL

=> phenothiazine

17633 PHENOTHIAZINE  
4176 PHENOTHIAZINES  
L5 18604 PHENOTHIAZINE  
(PHENOTHIAZINE OR PHENOTHIAZINES)

=> l4 and l5

L6 104 L4 AND L5

=> l6 and l1

L7 1 L6 AND L1

=> d l7

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 2003:757774 CAPLUS  
DN 139:277487  
TI Low yellowing scorch inhibitor composition applied to  
foam  
IN Demassa, John Matthew  
PA R.T. Vanderbilt Company Inc., USA  
SO PCT Int. Appl., 26 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003078515	A1	20030925	WO 2003-US7603	20030311
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
	CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
	GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
	LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,				

PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,  
 UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,  
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,  
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
 US 2003199598 A1 20031023 US 2003-386415 20030311  
 US 6676849 B2 20040113  
 EP 1483317 A1 20041208 EP 2003-716504 20030311  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK  
 JP 2005520026 T2 20050707 JP 2003-576511 20030311  
 PRAI US 2002-363954P P 20020313  
 WO 2003-US7603 W 20030311  
 RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

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FILE 'CAPLUS' ENTERED AT 09:42:32 ON 04 AUG 2005

L1 1447 INHIBITOR COMPOSITION  
 L2 328496 MELT  
 L3 1 L1(L)L2  
 L4 14825 ?BUTYLPHENOL  
 L5 18604 PHENOTHIAZINE  
 L6 104 L4 AND L5  
 L7 1 L6 AND L1

=> acrylic

248758 ACRYLIC  
 1304 ACRYLICS  
 L8 249128 ACRYLIC  
 (ACRYLIC OR ACRYLICS)

=> l6 and l8

L9 12 L6 AND L8

=> d l9 1-12 ti

L9 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Workup of (meth)acrylic acid and (meth)acrylic esters

L9 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Procedure for manufacture of organoacyloxysilanes by reaction of silanes  
 or silyl ethers with acid anhydrides and optionally carboxylic acids as  
 co-reactants

L9 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Method for producing acrylic acid by the fractional distillation  
 of hot gas mixtures

L9 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Mixtures of polymerization inhibitors for (meth)acrylic acid and  
 esters

L9 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Inhibition of polymerization of ethylenically unsaturated compounds using  
 amidoximes

L9 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Process for preparing silyl acrylates and methacrylates from  
 organyloxysilanes and anhydrides for use in manufacturing antifouling and



self-polishing marine paints

L9 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Process for the batch manufacture of (meth)acrylic anhydrides

L9 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Process for separation and purification of hydroxyalkyl esters of acrylic acid and methacrylic acid

L9 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Polymerization prevention in purification of acrylic acid

L9 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Polymerization inhibition of acrylic acid in purification process including azeotropic distillation

L9 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Preparation of alicyclic epoxidated dihydrodicyclopentadienyl (meth)acrylates as monomers

L9 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Lubricants and motor fuels

=> d 19 ti fbib abs

L9 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Workup of (meth)acrylic acid and (meth)acrylic esters  
AN 2004:141559 CAPLUS  
DN 140:181969  
TI Workup of (meth)acrylic acid and (meth)acrylic esters  
IN Schroder, Jurgen  
PA BASF Akiengesellschaft, Germany  
SO U.S. Pat. Appl. Publ., 11 pp.  
CODEN: USXXCO  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004031674	A1	20040219	US 2003-459612	20030612
				DE 2002-10238142	A 20020815
	DE 10238142	A1	20040311	DE 2002-10238142	20020815
	WO 2004022519	A1	20040318	WO 2003-EP8401	20030730
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
				DE 2002-10238142	A 20020815

AB A process for distillative working up mixts. containing (meth)acrylic acid and/or (meth)acrylic ester in a column for distilling, rectifying and/or fractionally condensing, involves the presence of at least one polymerization inhibitor and an oxygen-containing gas, wherein the partial oxygen pressure p(O<sub>2</sub>) in the gas phase of the entire column is from 2 to 5 hPa.

=> 12 and 19

L10 1 L2 AND L9

=> d 110

L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 2003:551482 CAPLUS  
DN 139:117801  
TI Method for producing acrylic acid by the fractional distillation  
of hot gas mixtures  
IN Hammon, Ulrich; Schroeder, Juergen  
PA BASF Aktiengesellschaft, Germany  
SO PCT Int. Appl., 36 pp.  
CODEN: PIXXD2  
DT Patent  
LA German  
FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003057657	A1	20030717	WO 2003-EP10	20030103
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 10200583	A1	20030710	DE 2002-10200583	20020109
	DE 10217121	A1	20031030	DE 2002-10217121	20020417
	EP 1465857	A1	20041013	EP 2003-702381	20030103
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	BR 2003006677	A	20041207	BR 2003-6677	20030103
	JP 2005514417	T2	20050519	JP 2003-557976	20030103
	US 2005143604	A1	20050630	US 2003-500009	20030103
PRAI	DE 2002-10200583	A	20020109		
	DE 2002-10217121	A	20020417		
	WO 2003-EP10	W	20030103		

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 19 8-10 ti fbib abs

L9 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Process for separation and purification of hydroxyalkyl esters of  
acrylic acid and methacrylic acid  
AN 2000:381933 CAPLUS  
DN 132:348118  
TI Process for separation and purification of hydroxyalkyl esters of  
acrylic acid and methacrylic acid  
IN Becus, Carmen Liana; Condor, Magdalena; Mihai, Cornelia  
PA Institutul de Cercetari Produse Auxiliare Organice, Medias, Rom.  
SO Rom., 7 pp.  
CODEN: RUXXA3  
DT Patent  
LA Romanian  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	RO 111675	B1	19961230	RO 1995-2017	19951122
				RO 1995-2017	19951122
AB	The esters prepared by reaction of acrylic or methacrylic acid				

with alkylene oxides using Fe and Cr catalysts comprises degassing of the product under stirring and 350-500 mm Hg pressure, followed by decantation, and distillation in 2-5 steps in the presence of 0.1-1% 4-methyl-2,6-ditertbutylphenol polymerization inhibitor, and 5-7% poly(alkylene glycol) added to the first stage. The order of decantation and degassing operations can be reversed. The degassing operation ensure removal of unreacted to alkylene oxides to levels at or below 0.5% and decantation removes insol. catalysts as sludge at levels of 1.5-3% of bulk product. The mol. weight of poly(alkylene glycol) used in the distillation

process

is 200-600. In an autoclave reactor a mixture of 1600 g methacrylic acid, 3.7 g. phenothiazine, 11.6 g anhydrous FeCl<sub>3</sub>, and 11.6 g CrO<sub>3</sub> was heated to 75° under N and 892 g ethylene oxide slurry were added in a period of 2 h, then the reaction was allowed to proceed for 1 h. The raw product, cooled to ambient temperature contained 1.6% ethylene oxide and esterification was 99.7%. The reactor pressure was adjusted to 450 mm Hg and the product mixture was degassed by stirring for 30 min, obtained a degassed product containing 0.16% ethylene oxide and 95.22% hydroxyethyl methacrylate. The product was paced in a decantation vessel and kept at ambient pressure and temperature for 4 h; the upper layer was removed obtaining 2389 g of product containing 96.35% hydroxyethyl methacrylate (98.84% yield) and 57 g slurry remained in the bottom layer. The inhibitor, 21 g., and 25 g poly(ethylene glycol) were added to the product and distillation in 5

steps

was carried out; the final product yield was 2255 g distillate containing 98.02% hydroxyethyl methacrylate.

L9 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Polymerization prevention in purification of acrylic acid  
 AN 2000:19315 CAPLUS  
 DN 132:50378  
 TI Polymerization prevention in purification of acrylic acid  
 IN Nagai, Koichi; Kato, Kozo; Katahira, Kimiteru; Ono, Tatsuya  
 PA Sumitomo Chemical Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000001455	A2	20000107	JP 1998-163875	19980611
	SG 78357	A1	20010220	SG 1999-2781	19990609
				JP 1998-163875	A 19980611
				JP 1998-222872	A 19980806
	KR 2000006069	A	20000125	KR 1999-21507	19990610
				JP 1998-163875	A 19980611
				JP 1998-222872	A 19980806
	CN 1240205	A	20000105	CN 1999-109503	19990611
				JP 1998-163875	A 19980611
				JP 1998-222872	A 19980806

PATENT FAMILY INFORMATION:

FAN 2000:120844

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000053612	A2	20000222	JP 1998-222872	19980806
	SG 78357	A1	20010220	SG 1999-2781	19990609
				JP 1998-163875	A 19980611
				JP 1998-222872	A 19980806
	KR 2000006069	A	20000125	KR 1999-21507	19990610
				JP 1998-163875	A 19980611
				JP 1998-222872	A 19980806
	CN 1240205	A	20000105	CN 1999-109503	19990611
				JP 1998-163875	A 19980611
				JP 1998-222872	A 19980806

AB Aqueous **acrylic acid** solns. obtained by gas-phase catalytic oxidation of propylene and/or acrolein with mol. O-containing gases are purified in processes containing azeotropic dehydration-distillation, where alkanolamines and polymerization inhibitors are added to the solns. Thus, a 55% aqueous **acrylic acid** solution (containing 200 ppm **phenothiazine** and 50 ppm p-methoxyphenol) obtained by 2-step catalytic oxidation of propylene was azeotropically distilled with PhMe, further distilled, and mixed with 200 ppm monoethanolamine and 25 ppm Cu dibutyldithiocarbamate to give a sample showing polymer formation rate 163 ppm/h at 100°, vs. 4436 ppm/h for a control not containing the additives.

L9 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Polymerization inhibition of **acrylic acid** in purification process including azeotropic distillation  
 AN 1999:631115 CAPLUS  
 DN 131:258050  
 TI Polymerization inhibition of **acrylic acid** in purification process including azeotropic distillation  
 IN Nagai, Koichi; Kato, Kozo; Katahira, Kimiteru; Ono, Tatsuya  
 PA Sumitomo Chemical Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 5 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11269121	A2	19991005	JP 1998-73916	19980323
				JP 1998-73916	19980323

AB In purification of **acrylic acid** (I) prepared by vapor-phase oxidation of propylene and/or acrolein, polymerization inhibitors and urea are added to the crude I for polymerization inhibition. Thus, I containing **phenothiazine** 200, p-methoxyphenol 50, urea 200, and Cu dibutyldithiocarbamate 25 ppm was heated at 100° under N resulting in production of 232 ppm/h of I polymer.

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L9 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Workup of (meth)**acrylic acid** and (meth)**acrylic esters**  
 AN 2004:141559 CAPLUS  
 DN 140:181969  
 TI Workup of (meth)**acrylic acid** and (meth)**acrylic esters**  
 IN Schroder, Jurgen  
 PA BASF Akiengesellschaft, Germany  
 SO U.S. Pat. Appl. Publ., 11 pp.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004031674	A1	20040219	US 2003-459612	20030612
				DE 2002-10238142	A 20020815
	DE 10238142	A1	20040311	DE 2002-10238142	20020815
	WO 2004022519	A1	20040318	WO 2003-EP8401	20030730
	W:			AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW	
	RW:			GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,	

KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,  
FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,  
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

DE 2002-10238142 A 20020815

AB A process for distillative working up mixts. containing (meth)acrylic  
acid and/or (meth)acrylic ester in a column for distilling,  
rectifying and/or fractionally condensing, involves the presence of at  
least one polymerization inhibitor and an oxygen-containing gas, wherein the  
partial  
oxygen pressure p(O<sub>2</sub>) in the gas phase of the entire column is from 2 to 5  
hPa.

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

47.73

47.94

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-3.65

-3.65

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 09:55:23 ON 04 AUG 2005